

Sublancin 168

Figure 1

Sublancin Display Peptide

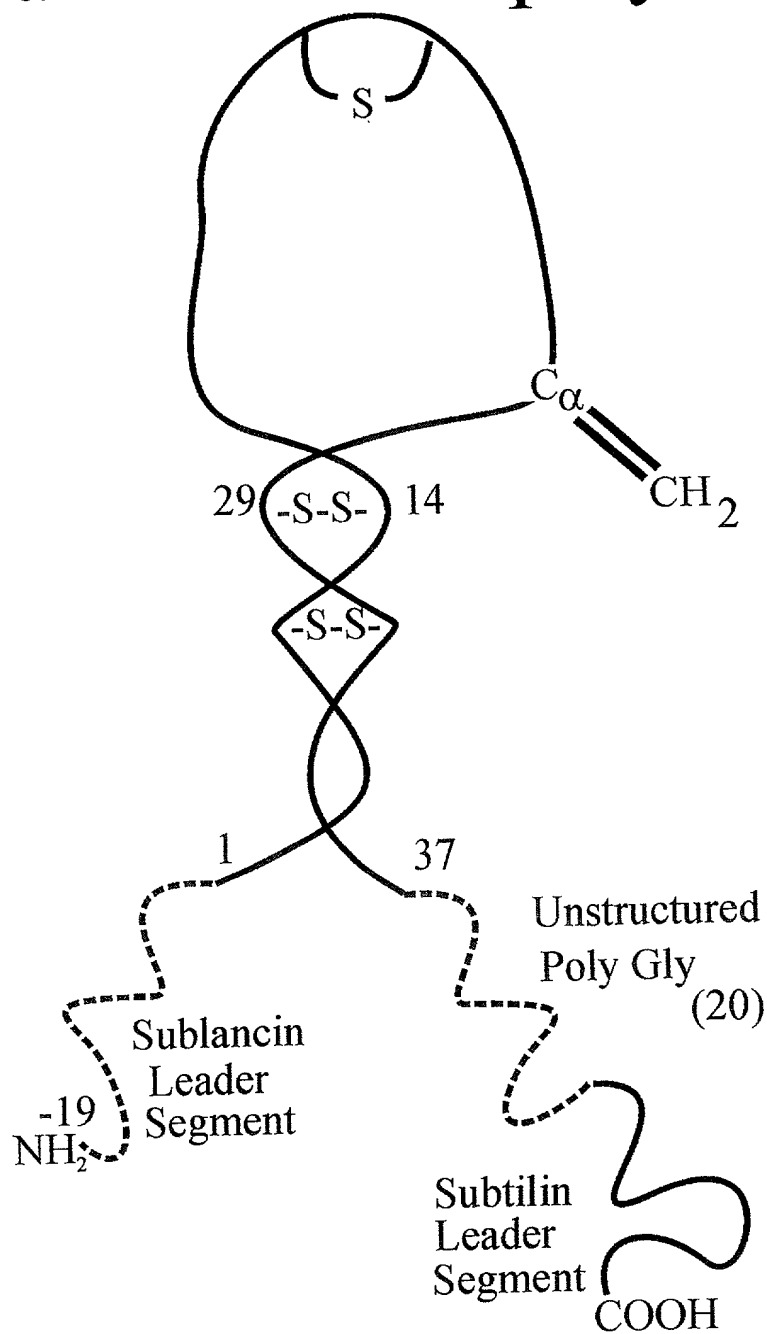


Figure 2

AGAAGTGTCTCAGTCACGTTATCGAATATTGAGGATGATGTTAATCAGCAGCTGAGTTTATTTGAAGTGG
ATAATGAAAAGAGAAGGAACTCGGTTTTGTAATGGATGGGATTAGAAGTAAATACGGCTCTAAAGCGAT
LPHF1--->
TCTGAGAGCAGTTTCTTATACACCAGCAGGAACTGCACTTCAACGAGCTGGATTAACAGGTGGGCATAAG
AGTTAAGATAAAATTTAACTTATATAACACATCGCTTAAAGTTTTTTTGTTTTAAAAAATTTAAAAACAT
|-----> *yolF* ----->
GGTAAATATATATAAAAAACATAAGAAAGAGTGATTAT ATGGAATATGTAGTTATGATAATCATTTTATTA
GCACTTTTCTTTATTTTACTGTTTTCTTAAATACACGTTATAGTTTTGATGAAAAATGCTTAGCTTAA
AATTTGGTTTATCTAAAAACAGAAATCCAATTAATCAAATAGTTAGTATTAAGAGTCAAGACAAGTATGG
AGTTGCAGATAATATCGATTATAAAATTGGTATGCCATATGCTCAACCAGATAGAATTGTTATTGAAACT
----- *yolF* -----
ACAAATAAGCGTTTTCTAGTTTTTTTTTAAATGGAGCTCAACAATTTATTCAAAAGTATAAAAGGGTTAGTG
--|
TT TGAACATAAAAAAGTACCTTCTTACAATAGAAGGTACTTTTTTGTATCTATAATTATTAATAATTTAC
CTAAATTTTATCATTATTAATTCAAAATAAATCCATAATAGTCAATTTTATTTAGTGTATTACAACCAA
-----LPHR1, (LPHF2, LPVF2-->)
TTCTGTTTATTGATAGGTAATAAAGTTTTTTTCTATGATTTATGAACAAGTTTCCTTATAATTTTCAAA
-35 -10
AAAAAATAAAAAATATGGTTGAATTTAGATTTATCTTCCTTTATATTAAAAATGTAATCCGGATTGCAA
r.b.s. |-----> *sunA* leader region----->
ACAAATGGGGAGGTTTTTACAA ATGGAAGAGCTATTTAAAGAAGTTAAACTAGAGGAACTCGAAACCAAA
-----LPHR2 -----LPVR2 NLPVF3----->
sunA mature region ----->
AAGGTAGT GGATTAGGAAAAGCTCAGTGTGCTGCGTTGTGGCTACAATGTGCTAGTGGCGGTACAATTGG
----- *sunA* ----- Pst I |
TTGTGTGGCGGAGCTGTTGCTTGTCAAAAC TATCGTCAATTCTGCAGA TAAACATTTGTAGAGGGAAT
LPVF4---> LPHF3--->
-----LPPMR2
|-----> *sunT* ----->
ATTTTAAATATTCCTCATATTTAAAGCGGGGATTGAAA TTGAATAAGAAAAAGAAATATGTTTACTACTA
AACAGTTTAAATAGTCATGATTGTGGACTAGCTTGTATCTCGTCAATTTTAAAGTTTCATAACCTTAACCTA
TGGAATTGATTTCTTACTAGACCTAATTGGGGATAAGGAAGGCTATAGTTTAAAGAGACTTAATTGTTATT
TTTAAAGAAGATGGGGATAAAAACTAGGCCACTTGAATTGCAAGAAAATAAGACATTCTGAAGCCCTAAAAAC
AAATAAAGCTCCCTTGTATAGCTTTGTTAGAAGGGGAGGAATATGGACATTACATAACAATATACGAAAT
TAGAAATAACTATTTACTTGTAGTGATCCTGATAAAGACAAAATAACTAAAAATAAAAAAGAGGATTTT
GAAAGTAAATTCACAACTTTATATTAGAAATTGACAAAGAGTCAATTCCTGAAAAAGAAAAAGATCAAA
AAAAACATTCTTACTTTTTTAAGGACATACTTTTTTAGAAATAAATTGATCGTTTTTGTGATTTTATTGAC
TTCCTTGTTCGTTGTGGGTCTTGTCTGTAGCTGGGTGCTTTTATATAAAGTTTCTAGTTGACCT----->
-----LPHR3 & LPVR4 -----> *sunT* ----->

Figure 3

[illegible]

Figure 4

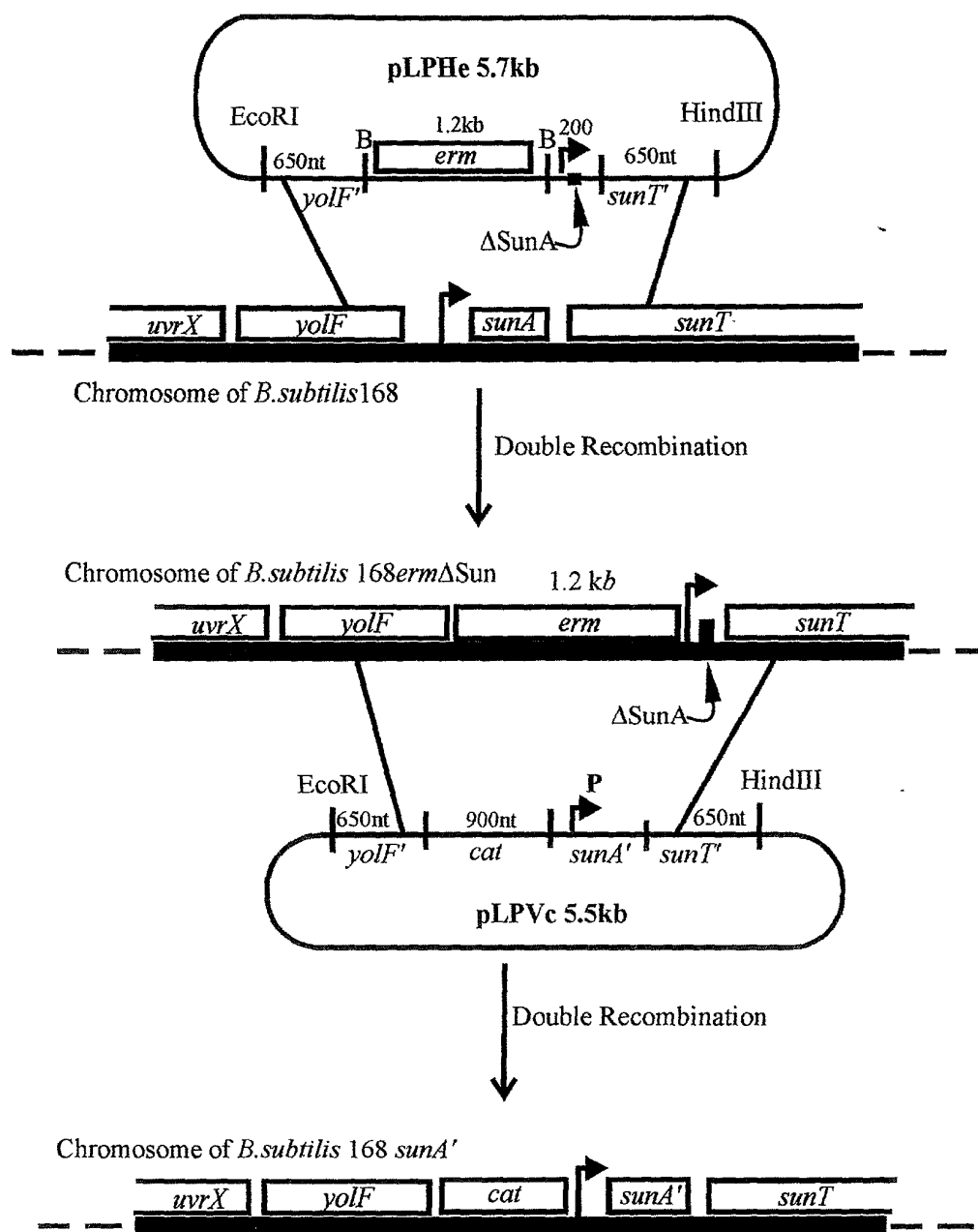
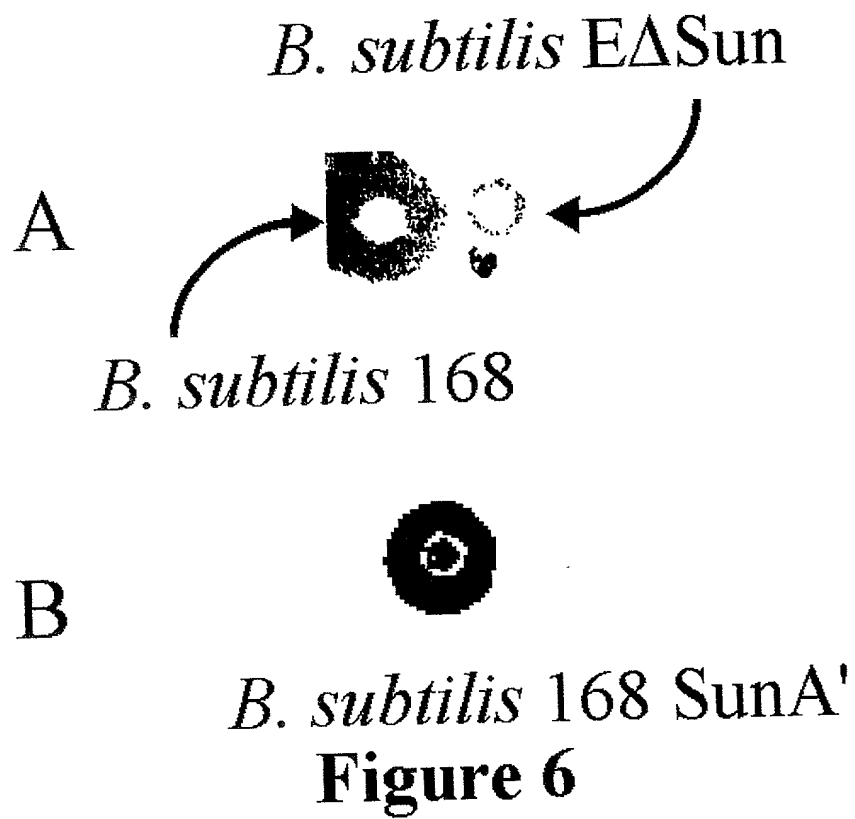


Figure 5



← pLPcat

Sublancin leader→

TTGCAACAAATGGGGAGGTTTACAA ATGGAAAAGCTATTTAAAGAAG
MetGluLysleuPheLysGluV

XhoI

sublancin prep-

TTAAACTCGAGGAACTCGAAAACCAAAAAGGTAGT GGATTAGGAAAAGC
AlLysLeuGluGluLeuGluAsnGluLysGlySer GlyLeuGlyLysAl

tide→

TCAGTGTGCTGCGTTGTGGCTACAATGTGCTAGTGGCGGTACAATTGGTT
aGlnCysAlaAlaLeuTrpLeuGlnCysAlaSerGlyGlyThrIleGlyC

KasI

Poly-

GTGGTGGCGGGCGCCGTTGCTTGTCAAACTATCGTCAATTCTGTAGAGGT
ysGlyGlyGlyAlaValAlaCysGlnAsnTyrArgGlnPheCysArgGly

glycine20→

BseRI

GGTGGTGGGGGAGGCGGGGGAGGGGGTGGTGGTGGAGGAGGTGGTGGTGG
GlyGlyGlyGlyGlyGlyGlyGlyGlyGlyGlyGlyGlyGlyGlyGlyGly

subtilin leader→

XbaI

TGGTGGTATGTCAAAGTTCGATGATTTTCGATCTAGATGTTGTGAAAGTCT
yGlyGlyMetSerLysPheAspAspPheAspLeuAspValValLysValS

Stop

PstI

CTAAACAAGACTCAAAAATCACTCCGCAATAGAGTCCTGCAGATAAAACA
erLysGlnAspSerLysIleThrProGln *

pLPcat →

Figure 7

105290" 009E6260

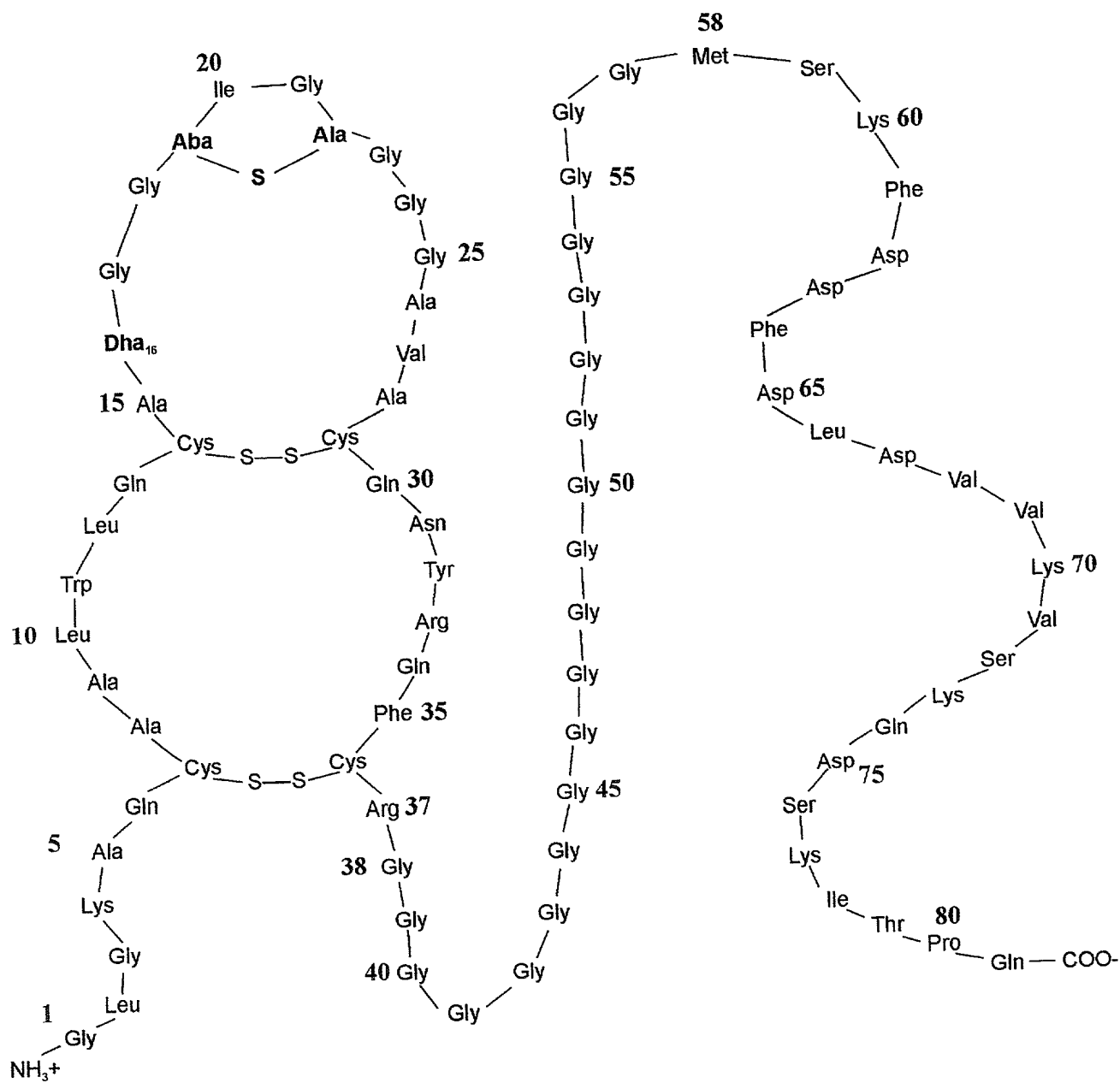


Figure 8